Replacement Parts List No. 055224300
Revision H 12/2013

SeasonPak Water Chillers

WHR 7-1/2 thru 120 Tons
Vintage C

McQuay International
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Parts List Revision History

Revision	Date	Description
New	4-89	New
A	11-99	Reformatted for electronic version.
B	10/01	Page 35 & 37 - Added the work 'PILOT' to the heading**Solenoid Valve, Liquid LIne, 120 Volt.
C	6/02	Page 39 - Pressure relief valve, 450 PSI part number was incorrect as 039441302 and was changed to 039441300.
D	10/2004	Pages 16, 17 - Removed all Copeland compressor information.
E	4/2005	Page 16 - WHR-050C 35HP part # 023576**6**00 was changed to part #023576**9**00. Page 35 -Solenoid Valve Liquid Line 30.5 Ton pn 025327**5****10** changed to #025327**5****00**.
F	5/2007	Page 4- Added Model Number Nomenclature
G	3/2009	Page 33- Bub # 265 change gasket p/n from 021026100 to 021027100. Bub # 266 change gasket p/n from 021026100 to 021027200.
H	12/2013	Pages 23-26: Added note to contact Daikin Applied for Cooler Assemblies and parts. Page 33: Corrected part numbers for Cond Model 038911300 Ref. 265 & 266 to 021026100, were 021027100 & 021027200.

Equipment Serial Number Nomenclature

Complete Equipment Serial Number Must Be Furnished on All Warranty Orders

Complete Serial Number

3 E B 12345 03

Plant Identification Number
1 = Minneapolis
3 = Faribault
4 = Grenada
5 = Staunton
7 = Spirit Lake / Auburn

Year Manufactured

A = 1971	H = 1978	Q = 1985	Y = 1993
B = 1972	J = 1979	R = 1986	Z = 1994
C = 1973	K = 1980	S = 1987	
D = 1974	L = 1981	T = 1988	
E = 1975	M = 1982	U = 1989	
F = 1976	N = 1983	V = 1990	
G = 1977	P = 1984	W = 1991	
		X = 1992	

Engineering Revision

Sequence Number

Month Manufactured

A	=	January
B	=	February
C	=	March
D	=	April
E	=	May
F	=	June
G	=	July
H	=	August
J	=	September
K	=	October
L	=	November
M	=	December

W HR - 030 C - 1*

Condensing Medium

Compressor Type

Nomnal Capacity (Tons)

Vintage

Basic Unit *:

1 -With a Single Water Cooled Condenser per Refrigerant Circuit

2 - With Mounted Receivers(s) in lieu of Condenser(s)

3 -Less Condenser(s) or Receiver(s)

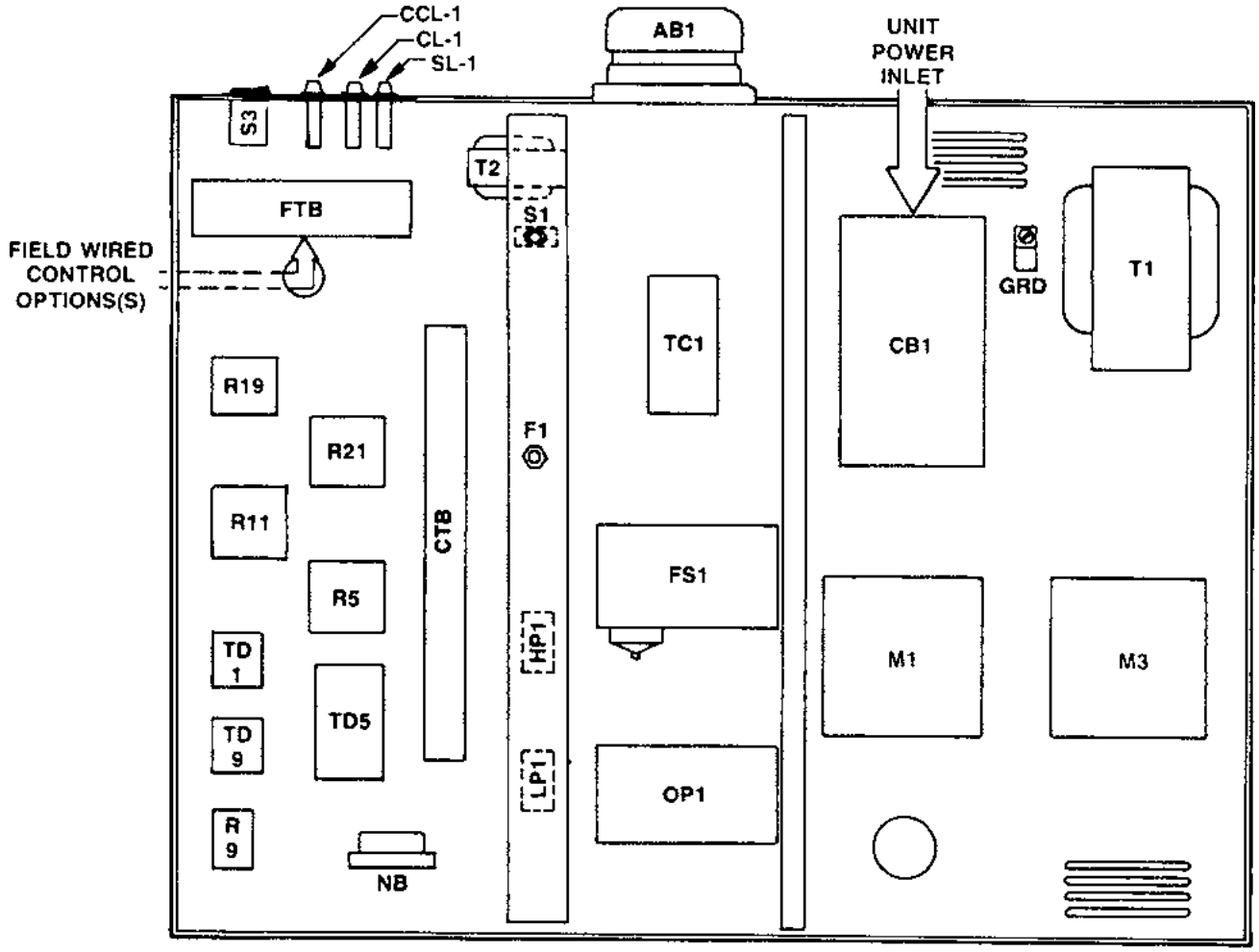
4 -With Dual Water Cooled Condensers per Refrigerant Circuit

Electrical Components Legend

AB1 .....Alarm Bell
CB1 thru 4.....Circuit Breakers
CCL1.....Control Circuit Light
CL1 thru 4 .....Cooling Stage Lights
CTB.....Terminal Block (Control)
F1.....Fuse, Control Circuit
FS1,2 .....Freeze Controls
FTB .....Terminal Block (Field Control Wiring)
HP1,2.....High Pressure Controls
HTR 1 thru 4 .....Crankcase Heaters
LP1,2 .....Low Pressure Controls
MA, MB .....External Starter Coils
M1 thru 8.....Contactors (Compressor 1,2,3,4)
NB.....Terminal Block (Neutral)
OP1 thru 4 .....Oil Pressure Control (Compressor 1,2,3,4)
PB1 .....Terminal Block (Power)
PS1,2 .....Pumpdown Switches
R3,4 .....Starting Relays (Compressor 3,4)
R5,6,7,8 .....Compressor Lockout & Interlock Relays
R9,10 .....Low Ambient Start Relays
R11,12,13,14 .....Alarm & Safety Relays
R19,20 .....Low Pressure Relays
R19,20,21 .....Pump Starter Relays
S3 .....System Switch
S4,5 .....Lead-Lag Switches
SL1 thru 4 .....Compressor Circuit Safety Switches
SV1,2 .....Solenoid Valves
T1.....Control Circuit Transformer
T2.....Alarm Circuit Transformer
TC1 .....Water Temperature Control Thermostat
TD1 thru 4.....Part Winding Time Delay Relays (Compr. 1,2,3,4)-Opt.
TD6 thru 8.....Compressor Lockout Time Delay Relays (Compr. 1,2,3,4)-Opt.
TD9 &10.....Low Ambient Start Time Delays-Optional
TD11-13.....Compressor Sequencing Time Delays

Power & Control Panel

WHR-008, 010, 015, 020, 025 & 030 - Schematic



Power & Control Panel

WHR-008, 010, 015, 020,025 & 030 - Power Panel / Components List

Schem. Symbol	Description		Part Number	Unit Size Pieces/Unit					
				008C	010C	015C	020C	025C	030C
	Circuit Breakers - 208/230V/60Hz/3Ph Unit Voltage								
CB1	40 Amp, 240 Volt, 3 Pole - 7.5 hp Compressor Circuit		022427410	1					
CB1	50 Amp, 240 Volt, 3 Pole - 10 hp Compressor Circuit		022427411		1				
CB1	100 Amp, 240 Volt, 3 Pole - 20 & 25 hp Compressor Circuit		022427413			1	1		
CB1	125 Amp, 240 Volt, 3 Pole - Units w/o Unit Mounted Condensers (G.O. Code 08=Y) See Note 1.		043758901					1	
CB1	125 Amp, 240 Volt, 3 Pole - Units with Unit Mtd. High Pressure Cond. (G.O. Code 08=B) See Note 1. 30 hp Compressor Circuit.		043758901					1	
CB1	100 Amp, 240 Volt, 3 Pole - Units with Unit Mounted Std. Condensers (G.O. Code 08=A) 30 hp Compressor Circuit.		022427413					1	
CB1	150 Amp, 240 Volt, 3 Pole - Units w/o Unit Mtd. Condensers. (G.O. Code 08=Y) See Note 2. 35 hp Compressor Circuit.		043758902						1
CB1	150 Amp, 240 Volt, 3 Pole - Units with Unit Mtd. High Press. Condensers (G.O. Code 08=B) See Note 2. 35 hp Compressor Circuit.		043758902						1
CB1	125 Amp, 240 Volt, 3 Pole - Units with Unit Mtd. Std. Condensers (G.O. Code 08=A) See Note 1. 35 hp Compressor Circuit.		043758901						1
	Circuit Breakers - 460V/60Hz/3Ph or 380V/50Hz/3Ph Unit Voltage								
CB1	25 Amp, 480 Volt, 3 Pole - 7.5 to 10 hp Compressor Circuit.		022427404	1	1				
CB1	50 Amp, 480 Volt, 3 Pole - 20 & 25 hp Compressor Circuit.		047359328			1	1		
CB1	70 Amp, 480 Volt, 3 Pole - 30 & 35 hp Compressor Circuit.		047359329					1	1
	Contactors - 208/230V60Hz/3Ph								
M1, M3	Compressor 1	40 Amp, 600 Volt, 3 Pole	027514103	1		2			
M1, M3	Compressor 1	50 Amp, 600 Volt, 3 Pole	027514104		1				
M1, M3	Compressor 1	60 Amp, 600 Volt, 3 Pole	027514105				2		
M1, M3	Compressor 1	75 Amp, 600 Volt, 3 Pole	027514106					2	2
	Contactors - 460V/60Hz/3Ph or 380V/50Hz/3Ph								
M1	Compressor 1, Across-The-Line Start	24 Amp, 600 Volt, 3 Pole	027514101	1	1				
M1	Compressor 1, Across-The-Line Start	40 Amp, 600 Volt, 3 Pole	027514103			1			
M1	Compressor 1, Across-The-Line Start	50 Amp, 600 Volt, 3 Pole	027514104				1		
M1	Compressor 1, Across-The-Line Start	60 Amp, 600 Volt, 3 Pole	027514105					1	
M1	Compressor 1, Across-The-Line Start	75 Amp, 600 Volt, 3 Pole	027514106						1
M3	Compressor 1, Part Winding Start	24 Amp, 600 Volt, 3 Pole	027514101			2	2		
M3	Compressor 1, Part Winding Start	30 Amp, 600 Volt, 3 Pole	027514102					2	
M3	Compressor 1, Part Winding Start	40 Amp, 600 Volt, 3 Pole	027514103						2

Notes:

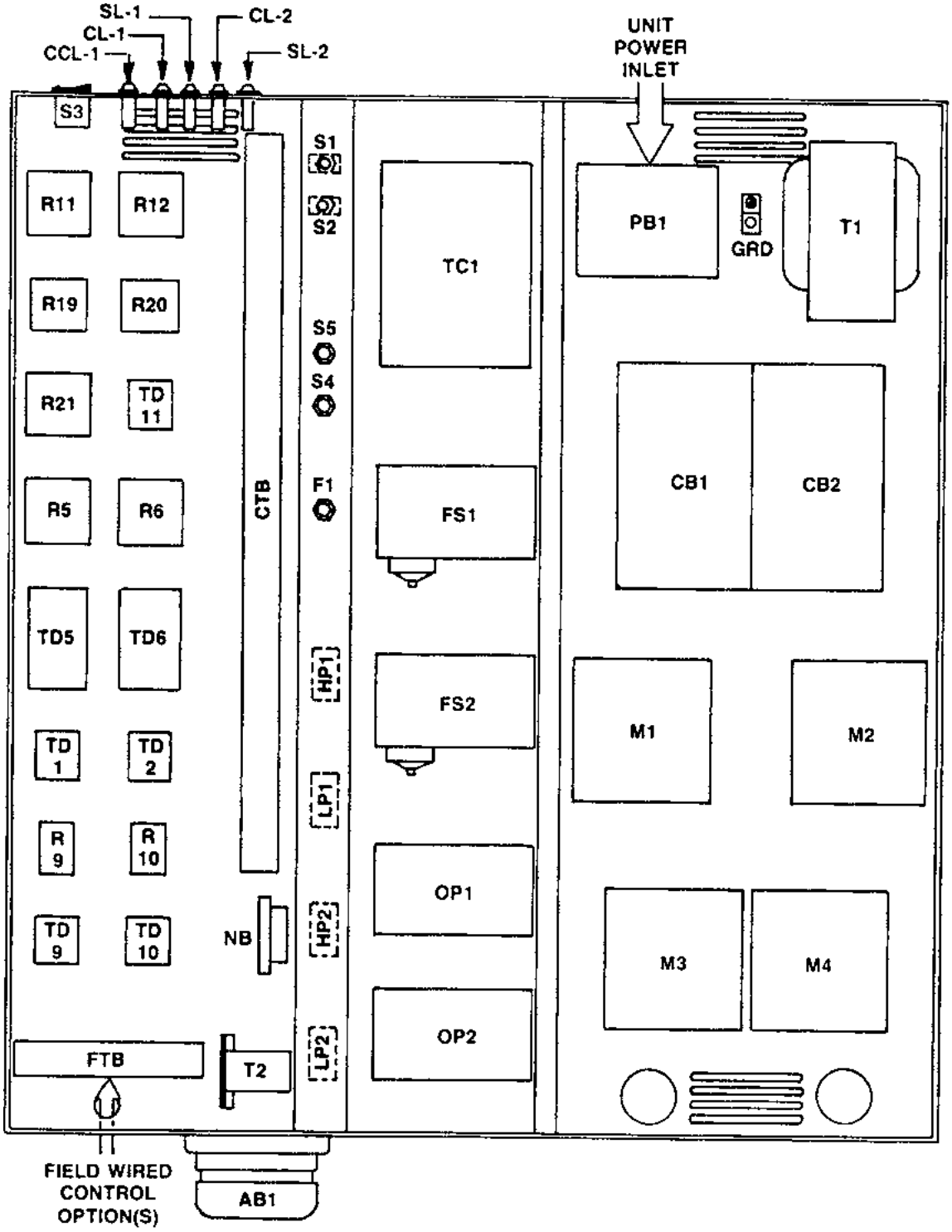
1. Replaces obsolete part number 860-014143Y-00 (Heinemann No. CJ3G3U1251). When replacing old style circuit breaker with new style, mounting bracket 044342000 must be ordered (one per circuit breaker).
2. Replaces obsolete part number 860-182717C-01 (Heinemann No. CJ3G3U1501). When replacing old style circuit breaker with new style, mounting bracket 044342000 must be ordered (one per circuit breaker).

Power & Control Panel

WHR-008, 010, 015, 020,025 & 030 - Control Panel / Components List

Schem. Symbol	Description	Part Number	Unit Size Pieces/Unit					
			008C	010C	015C	020C	025C	030C
	Relays							
R5	3PDT, 120A, Compressor Lockout Relay	028814400	1	1	1	1	1	1
R9	SPDT, 3A, Low Ambient Start Relay	032508101	1	1	1	1	1	1
R11	3PDT, 120A, Alarm and Safely Relay	028814400	1	1	1	1	1	1
R19	DPDT, 15A, Low Pressure Control Relay	019643000	1	1	1	1	1	1
R21	3PDT, 120A, Water Pump Starter Relay	028814400	1	1	1	1	1	1
	Time Delays							
TD1	1 Second Part Winding Time Delay	028210101			1	1	1	1
TD5	300 Second Compressor Lockout Time Delay	028381900	1	1	1	1	1	1
TD9	165 Second Low Ambient Start Time Delay	032358500	1	1	1	1	1	1
	Controls							
FS1	Freeze Protection Control	001354800	1	1	1	1	1	1
OP1	Oil Pressure Control	001354900	1	1	1	1	1	1
HP1	High Pressure Control	001354400	1	1	1	1	1	1
LP1	Low Pressure Control	001354500	1	1	1	1	1	1
TC1	2-Stage Capacity Control Stat, Well Part Number 020325500 (Standard Capacity Control Arrangement) Code 06=1.	017373800	1	1	1	1	1	1
TC1	4-Stage Capacity Control Stat, Well Part Number 020325500 (Optional Capacity Control Arrangement) Code 06=2.	027664200					1	1
PS1	SPST, 6 Amp, Compressor Pumpdown Switch	001355000	1	1	1	1	1	1
S3	SPST, 20 Amp, Control System Switch	024735200	1	1	1	1	1	1
S1,CL1,	Indicator Lights White Neon	016508304	3	3	3	3	3	3
& CCL1	Indicator Lights Red	016508303	3	3	3	3	3	3
F1	Fuse, 4 Amp, Control Circuit	018690700	1	1	1	1	1	1
	Fuseholder, 15 Amp	018690600	1	1	1	1	1	1
F2 &	Fuseholder, 30 Amp (Code 11=B or C)	047354101	2	2	2	2	2	2
F3	Fuse, 4 Amp, 208V (Code 04=12)	046742214	2	2	2	2	2	2
	Fuse, 1.5 Amp, 460V (Code 04=27)	046742209	2	2	2	2	2	2
	Fuse, 3 Amp, 230V (Code 04=29)	046742212	2	2	2	2	2	2
	Terminal Blocks							
FTB	Terminal Blocks, 14 Terminals, 20A, 300V, Field Control Terminal Block	022431214	1	1	1	1	1	1
CTB	Terminal Blocks, 30 Terminals, 20A, 300V, Control Terminal Block	015998130	1	1	1	1	1	1
NTB	Terminal Blocks, 7 Terminals, Neutral Bar Terminal Block	037530800	1	1	1	1	1	1
	Control Circuit Transformer							
T1	230/460-115V, .75 KVA Transformer (Code 04=27 or 29)	038253905	1	1	1	1	1	1
T1	208/277/380-115V, .75 KVA Transformer (Code 04=28)	038253914	1	1	1	1	1	1
	Optional Alarm Bell (Code11=A)							
	24V Alarm Bell	017809400	1	1	1	1	1	1
T2	120-24V,.04 KVA, Transformer	017503800	1	1	1	1	1	1
	Phase Voltage Monitor							
	Motor Saver (Phase Voltage Monitor) 460V	039444703						
	Motor Saver (Phase Voltage Monitor) 230V	039444702						
	Motor Saver (Phase Voltage Monitor) 208V	039444701						

Power & Control Panel
WHR-040, 050, 060 - Schematic



Power & Control Panel
WHR-040, 050, 060 / Power Panel - Components List

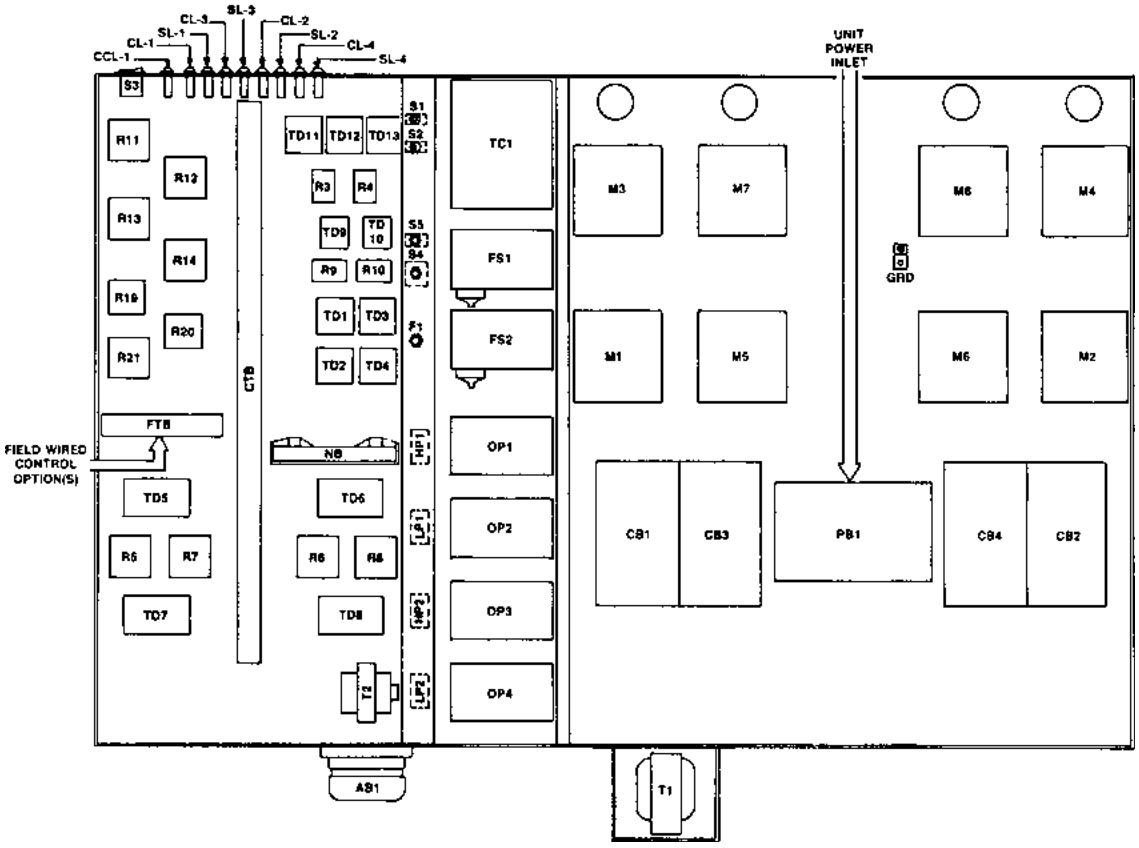
Schem. Symbol	Description	Part Number	Unit Size Pieces/Unit		
			040C	050C	060C
	Circuit Breakers - 208/230V/60Hz/3Ph Unit Voltage				
CB1, CB2	100 Amp, 240 Volt, 3 Pole - Units with Std. Condensers (G.O. Code 08=A) 25 hp Compressor Circuit.	022427413	2	1	
CB1, CB2	125 Amp, 240 Volt, 3 Pole - Units with Unit Mtd. Std. Condensers (G.O. Code 08=A) See Note 1. 35 hp Compressor Circuit.	043758901		1	2
CB1, CB2	150 Amp, 240 Volt, 3 Pole - Units w/o Std. Condensers (G.O. Code 08=Y) See Note 2. 35 hp Compressor Circuit.	043758902		1	2
CB1, CB2	150 Amp, 240 Volt, 3 Pole - Units with Unit Mtd. High Press. Condensers (G.O. Code 08=B) See Note 2. 35 hp Compressor Circuit.	043758902		1	2
	Circuit Breakers - 460V/60Hz/3Ph or 380V/50Hz/3Ph Unit Voltage				
CB1,	50 Amp, 480 Volt, 3 Pole - 25 hp Compressor Circuit.	047359328	2	1	
CB2	75 Amp, 480 Volt, 3 Pole - 35 hp Compressor Circuit.	047359329		1	2
	Contactors - 208-230V/60Hz/3Ph				
M1, M2	60 Amp, 600 Volt, 3 Pole, 25 hp Compressor Circuit	027514105	4	2	
M3,M4	75 Amp, 600 Volt, 3 Pole, 35 hp Compressor Circuit	027514106		2	4
	Contactors - 460V/60Hz/3Ph, Across-The-Line Start				
M1, M2	50Amp , 600 Volt, 3 Pole, 25 hp Compressor Circuit	027514104	2	1	
	75Amp, 600 Volt, 3 Pole, 35 hp Compressor Circuit	027514106		1	2
	Contactors - 460V/60Hz/3Ph, Part Winding Start				
M1, M2	25Amp , 600 Volt, 3 Pole, 25 hp Compressor Circuit	027514101	4	2	
M3,M4	40Amp, 600 Volt, 3 Pole, 35 hp Compressor Circuit	027514103		2	4

Notes:
1. Replaces obsolete part number 860-014143Y-00 (Heinemann No. CJ3G3U1251). When replacing old style circuit breaker with new style, mounting bracket 044342000 must be ordered (one per circuit breaker).
2. Replaces obsolete part number 860-182717C-01 (Heinemann No. CJ3G3U1501). When replacing old style circuit breaker with new style, mounting bracket 044342000 must be ordered (one per circuit breaker).

Power & Control Panel
WHR-040, 050, 060 / Control Panel - Components List

Schem. Symbol	Description	Part Number	Unit Size Pieces/Unit		
			040C	050C	060C
	Relays				
R5,R6	3PDT, 120A, Compressor Lockout Relay	028814400	2	2	2
R9,R10	SPDT, 3A, Low Ambient Start Relay	032508101	2	2	2
R11,R12	3PDT, 120A, Alarm and Safely Relay	028814400	2	2	2
R19,R20	DPDT, 15A, Low Pressure Control Relay	019643000	2	2	2
R21	3PDT, 120A, Water Pump Starter Relay	028814400	2	2	2
	Time Delays				
TD1,2	1 Second Part Winding Time Delay	028210101	2	2	2
TD5,6	300 Second Compressor Lockout Time Delay	028381900	2	2	2
TD9,10	165 Second Low Ambient Start Time Delay	032358500	2	2	2
	Controls				
FS1,2	Freeze Protection Control	001354800	2	2	2
OP1,2	Oil Pressure Control	001354900	2	2	2
HP1,2	High Pressure Control	001354400	2	2	2
LP1,2	Low Pressure Control	001354500	2	2	2
	Control Sequencer, R23AAG	034922000K			
TC1	4-Stage Capacity Control Thermostat	027664200	1	1	1
PS1,2	SPST, 6 Amp, Compressor Pumpdown Switch	001355000	2	2	2
S3	SPST, 20 Amp, Control System Switch	024735200	1	1	1
CCL1,	Indicator Lights White Neon	016508304	5	5	5
CL1,2 & SC1,2	Indicator Lights Red	016508303	5	5	5
F1	Fuse, 6 Amp, Control Circuit	020568500	1	1	1
	Fuseholder, 15 Amp	018690600	1	1	1
F2 & F3	Fuseholder, 30 Amp (Code 11=B or C)	047354101	2	2	2
	Fuse, 4 Amp, 208V (Code 04=12)	046742214	2	2	2
	Fuse, 3 Amp, 460V (Code 04=29 or 27)	046742209	2	2	2
	Power Block				
PB1	3 Pole, 600A, Terminal Power Block	030372726	1	1	1
	Terminal Blocks				
FTB	14 Terminals, 20A, 300V, Field Control Terminal Block	022431214	1	1	1
CTB	28 Terminals, 20A, 300V, Control Terminal Block	015998128	2	2	2
NTB	7 Terminals, Neutral Bar Terminal Block	037530800	2	2	2
	Control Circuit Transformer				
T1	230/460-115V, .75 KVA Transformer (Code 04=27 or 29)	038253905	1	1	1
T1	208/277/380-115V, .75 KVA Transformer (Code 04=28)	038253914	1	1	1
	Optional Alarm Bell				
	24 Volt Alarm Bell	017809400	1	1	1
T2	120-24Volt,.04 KVA, Transformer	017503800	1	1	1

Power & Control Panel
WHR-070, 080, 090, 110, 120 - Schematic



Power & Control Panel
WHR-070, 080, 090, 110, 120 / Power Panel - Components List

Schem. Symbol	Description	Part Number	Unit Size Pieces/Unit					
			070C	080C	090C	100C	110C	120C
	Circuit Breakers - 208/230V/60Hz/3Ph Unit Voltage							
CB1,2, 3,4	100 Amp, 240 Volt, 3 Pole - Units with Unit Mounted Std. Condensers (G.O. Code 08=A) 25 Hp Compressor Circuit.	022427413	2	1		2	1	
CB1,2, 3,4	125 Amp, 240 Volt, 3 Pole - Units with Unit Mtd. Standard Condensers. (G.O. Code 08=A) See Note 1. 35 Hp Compressor Circuit.	043758901	1	2	3	2	3	4
CB1,2, 3,4	150 Amp, 240 Volt, 3 Pole - Units w/o Unit Mtd. Condensers (G.O. Code 08=Y) See Note 2. 35 Hp Compressor Circuit.	043758902	1	2	3	2	3	4
CB1,2, 3,4	150 Amp, 240 Volt, 3 Pole - Units with Unit Mtd. High Pressure Cond. (G.O. Code 08=B) See Note 2. 35 Hp Compressor Circuit.	043758902	2	2	3	2	3	4
	Circuit Breakers - 460V/60Hz/3Ph or 380V/50Hz/3Ph Unit Voltage							
CB1,2, 3,4	50 Amp, 480 Volt, 3 Pole - 25 Hp Compressor Circuit.	022427407	2	1		2	1	
	70 Amp, 480 Volt, 3 Pole - 35 Hp Compressor Circuit.	022427408	1	2	3	2	3	4
	Contactors - 208/230V/60Hz/3Ph							
M1 thru M8	60 Amp, 600 Volt, 3 Pole, 25 Hp Compressor Circuit	027514105		2		4	2	
	75 Amp, 600 Volt, 3 Pole, 35 Hp Compressor Circuit	027514106	2	4	6	4	6	8
	Contactors - 460V/60Hz/3Ph Across-The-Line Start							
M1 thru M8	50 Amp, 600 Volt, 3 Pole, 25 Hp Compressor Circuit	027514104	2	1		2	1	
	75 Amp, 600 Volt, 3 Pole, 35 Hp Compressor Circuit	027514106	1	2	3	2	3	4
	Contactors - 460/60Hz/3Ph Part Winding Start							
M1 thru M8	25 Amp, 600 Volt, 3 Pole, 25 Hp Compressor Circuit	027514101		2		4	2	
	40 Amp, 600 Volt, 3 Pole, 35 Hp Compressor Circuit	027514103	2	4	6	4	6	8

Notes:
1. Replaces obsolete part number 001414300 (Heinemann No. CJ3G3U1251). When replacing old style circuit breaker with new style, mounting bracket 0443420B-00 must be ordered (one per circuit breaker).
2. Replaces obsolete part number 018271701 (Heinemann No. CJ3G3U1501). When replacing old style circuit breaker with new style, mounting bracket 044342000 must be ordered (one per circuit breaker).

Power & Control Panel

WHR-070, 080, 090, 110, 120 / Control Panel - Components List

Schem. Symbol	Description	Part Number	Unit Size Pieces/Unit					
			070C	080C	090C	100C	110C	120C
	Relays							
R3,4	SPDT, 3A, Compressor 3,4 Starting Relay	032508101	1	1	1	2	2	2
R5-8	3PDT, 120A, Compressor Lockout Relay	028814400	3	3	3	4	4	4
R9,10	SPDT, 3A, Low Ambient Start Relay	032508101	2	2	2	2	2	2
R11-14	3PDT, 120A, Alarm and Safely Relay	028814400	3	3	3	4	4	4
R19,20	DPDT, 15A, Low Pressure Control Relay	019643000	2	2	2	2	2	2
R21	3PDT, 120A, Water Pump Starter Relay	028814400	1	1	1	1	1	1
	Time Delays							
TD1-4	1 Second Part Winding Time Delay	028210101	3	3	3	4	4	4
TD5-8	300 Second Compressor Lockout Time Delay, MOR120A1X300	028381900	3	3	3	4	4	4
TD9,10	165 Second Low Ambient Start Time Delay	032358500	2	2	2	2	2	2
TD11	20 Second Compressor Sequencing Time Delay	028210106	1	1	1	1	1	1
TD12,13,	40 Second Compressor Sequencing Time Delay	028210107	1	1	1	2	2	2
	Controls							
FS1,2	Freeze Protection Control	001354800	2	2	2	2	2	2
OP1-4	Oil Pressure Control	001354900	3	3	3	4	4	4
HP1,2	High Pressure Control	001354400	2	2	2	2	2	2
LP1,2	Low Pressure Control	001354500	2	2	2	2	2	2
	Control Sequencer, R23AAG	034922000K						
TC1	4-Stage Capacity Control Thermostat	027664200	1	1	1	1	1	1
PS1,2	SPST, 6 Amp, Compressor Pumpdown Switch	001355000	2	2	2	2	2	2
S3	SPST, 20 Amp, Control System Switch	024735200	1	1	1	1	1	1
S5	DPDT, 15 Amp, Lead-Lag Switch	019187300	1	1	1	1	1	1
S4	4DPT, 10 Amp, Lead-Lag Switch	001355100	1	1	1	1	1	1
CCL1, CL1-4 SC1-4	Indicator Lights White Neon	016508304	7	7	7	9	9	9
F1	Fuse, 6 Amp, Control Circuit	020568500	1	1	1	1	1	1
	Fuseholder, 15 Amp	018690600	1	1	1	1	1	1
F2 & F3	Fuseholder, 30 Amp (Code 11=B or C)	047354101	2	2	2	2	2	2
	Fuse, 6 Amp, 208V (Code 04=12)	046742216	2	2	2	2	2	2
	Fuse, 5 Amp, 230V (Code 04=29)	046742215	2	2	2	2	2	2
	Fuse, 4 Amp, 460V (Code 04=27)	046742214	2	2	2	2	2	2

Power & Control Panel

WHR-070, 080, 090, 110, 120 / Control Panel - Components List, Cont'd.

Schem. Symbol	Description	Part Number	Unit Size Pieces/Unit					
			070C	080C	090C	100C	110C	120C
	Power Block							
PB1	3 Pole, 840A, 600V, Terminal Power Block	030372724	1	1	1	1	1	1
	Terminal Blocks							
FTB	14 Terminals, 20A, 300V, Field Control Terminal Block	022431214	1	1	1	1	1	1
CTB	30 Terminals, 20A, 300V, Control Terminal Block	015998130	2	2	2	2	2	2
CTB	6 Terminals, 20A, 300V, Control Terminal Block	015998106	1	1	1	1	1	1
NTB	16 Terminals, Neutral Bar Terminal Block	037530700	1	1	1	1	1	1
	Control Circuit Transformer							
T1	230/460-115V, .75 KVA Transformer (Code 04=27 or 29)	038253905	1	1	1	1	1	1
	208/277/380-115V, .75 KVA Transformer (Code 04=28)	038253914	1	1	1	1	1	1
	Optional Alarm Bell (Code 11=A)							
	24 Volt Alarm Bell	017809400	1	1	1	1	1	1
T2	120-24 Volt, .04 KVA, Transformer	017503800	1	1	1	1	1	1

Compressors
008C-060C / Components List

Note: All compressors include solid-state motor protector

Model No.	HP	Notes				Part No.
		V	S	U	Q	
WHR-008C	7.5	1	A	N	1	019648100
WHR-008C	7.5	4	A	N	1	019648200
WHR-010C	10	1	A	1	1	023576100
WHR-010C	10	4	A	1	1	023576200
WHR-015C	20	2	A	1	1	027398400
WHR-015C	20	4	P	1	1	031784900
WHR-020C	25	2	A	1	1	023576700
WHR-020C	25	4	P	1	1	031785100
WHR-025C	30	2	A	1&2	1	027398600
WHR-025C	30	4	P	1&2	1	031785200
WHR-030C	35	2	A	1&2	1	023577000
WHR-030C	35	4	P	1&2	1	031309900
WHR-040C	25	2	A	N	2	023576600
WHR-040C	25	4	P	N	2	031785000
WHR-040C	25	2	A	1	2	023576700
WHR-040C	25	4	P	1	2	031785100
WHR-050C	25	2	A	N	1	023576600
WHR-050C	35	2	A	N	1	023576900
WHR-050C	25	4	P	N	1	031785000
WHR-050C	35	4	P	N	1	031785300
WHR-050C	25	2	A	1	1	023576700
WHR-050C	35	2	A	1	1	023577000
WHR-050C	25	4	P	1	1	031785100
WHR-050C	35	4	P	1	1	031309900
WHR-060C	35	2	A	N	2	023576900
WHR-060C	35	2	A	N	2	031785300
WHR-060C	35	2	A	1&2	2	023577000
WHR-060C	35	4	P	1&2	2	031309900

Notes:

V = Voltage: 1 = 208-240 volts.
2 = 208-240/460 volts, part winding start on 208-240 volts only.
4 = 460 volts part winding only.

S = Starting: A = Across-the-line.
P = Part winding.

U = Unloading: N = 208-240 volts.
1 = 1 bank unloading on each compressor.
2 = Additional bank of unloading available with kits.

Q = Quantity required per unit.

Compressors
070C-120C / Components List

Note: All compressors include solid-state motor protector

Model No.	HP	Notes				Part No.
		V	S	U	Q	
WHR-070C	35	2	A	N	1	023576900
WHR-070C	50T	2	A	N	1	023577200
WHR-070C	35	4	P	N	1	031785300
WHR-070C	50T	4	P	N	1	031785400
WHR-070C	35	2	A	1	1	023577000
WHR-070C	35	4	P	1&2	1	031309900
WHR-080C	35	2	A	N	1	023576900
WHR-080C	60T	2	A	N	1	023577400
WHR-080C	35	4	P	N	1	031785300
WHR-080C	35	2	A	1	1	023577000
WHR-080C	35	4	P	1	1	031309900
WHR-080C	60T	4	P	N	1	031785500
WHR-090C	35	2	A	N	1	023576900
WHR-090C	70T	2	A	N	1	023577700
WHR-090C	35	4	P	N	1	031785300
WHR-090C	70T	4	P	N	1	031785600
WHR-090C	35	2	A	1	1	023577000
WHR-090C	35	4	P	1	1	031309900
WHR-100C	60T	2	A	N	2	023577400
WHR-100C	60T	4	P	N	2	031785500
WHR-110C	60	2	A	N	1	023577400
WHR-110C	70T	2	A	N	1	023577700
WHR-110C	60T	4	P	N	1	031785500
WHR-110C	70T	4	P	N	1	031785600
WHR-120C	70T	2	A	N	2	023577700
WHR-120C	70T	4	P	N	2	031785600

Notes:

V = Voltage: 1 = 208-240 volts.
2 = 208-240/460 volts, part winding start on 208-240 volts only.
4 = 460 volts part winding only.

S = Starting: A = Across-the-line.
P = Part winding.

U = Unloading: N = No unloading.
1 = 1 bank unloading on each compressor.
2 = Additional bank of unloading available with kits.

Q = Quantity required per unit.

Compressors

Misc. Compressor & Mounting Vibration Isolation / Components List

Miscellaneous Compressor Components - All Unit Sizes

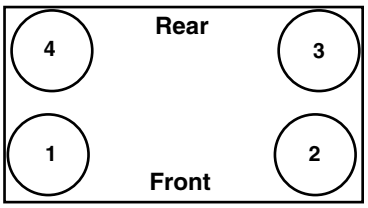
Part Description	Compressor HP	Part Number
Unloader Kit, Includes 115V Coil	20, 25, 30 & 35 HP	025633500
Motor Protector *(See note below)*		
Post 1981 Units: Copeland 071-0424-01 or Texas Instruments 15AA1600B	All Hp	044691500
Pre 1980 Units: Copeland 071-0398-01 or Robertshaw MP23-1023	25,35,40 HP-All Voltage or 20,30 HP, 460V, PW	030734400
Pre 1980 Units: Copeland 071-0376-02	20,30 HP, Except 460V, PW	027398700
Crankcase Heater - 120 Volt	20,25,30,35 HP	020568100

Note: When ordering motor protectors for compressors in units built between January, 1980 and December, 1981, or if you are unsure of unit manufacture date, please refer to vendor and model number of motor protector taken from nameplate on protector device.

Compressor Mounting Vibration Isolation - All Unit Sizes

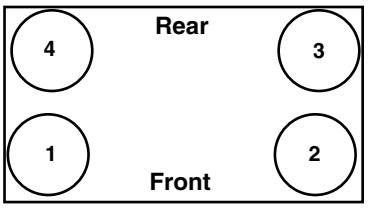
WHR Unit Size	Part Description	Part Number
008C thru 060C	Mounting Pad with Steel Plate	066098601
008C thru 060C	Rubber Spacer	019941000
070C thru 120C	Rubber-in-shear Rail Mount	017888103

Unit Mounting Vibration
Isolator Selection & Mounting Locations
Arrangements 1 & 2



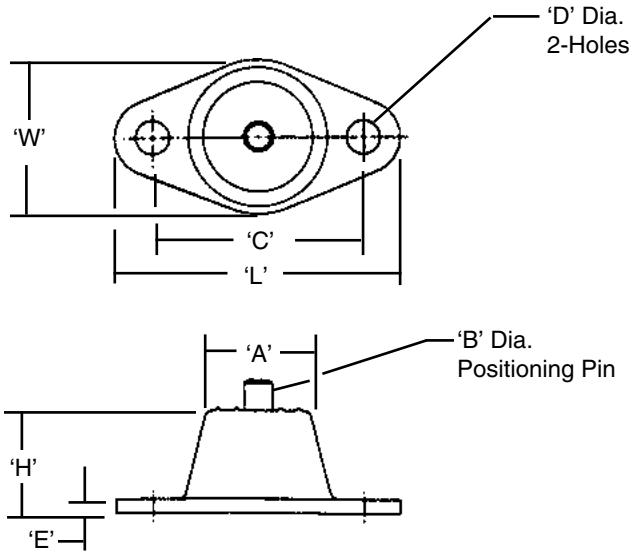
WHR Model Num.	Operating Weight (Lbs.)	Single Rubber-In-Shear Mountings				Spring-Flex Mountings			
		Mounting Locations				Mounting Locations			
		1	2	3	4	1	2	3	4
		Type RP-Mounting Selection No.				Type CP-Mounting Selection No.			
ARRANGEMENT 1 - With Water Cooled Condensers									
008C	925	2-Green	2-Green	2-Green	2-Green	1-24	1-24	1-24	1-24
010C	994	2-Green	2-Green	2-Green	2-Green	1-24	1-24	1-24	1-24
015C	1231	2-Green	2-Green	2-Green	2-Green	1-25	1-25	1-25	1-25
020C	1419	3-Red	3-Green	3-Red	3-Red	1-25	1-27	1-25	1-25
025C	1647	3-Red	3-Green	3-Red	3-Red	1-26	1-27	1-26	1-25
030C	1716	3-Green	3-Green	3-Red	3-Red	1-26	1-27	1-26	1-25
040C	2456	3-Green	3-Green	3-Green	3-Green	1-27	1-27	1-27	1-27
050C	2952	3-Gray	3-Gray	3-Gray	3-Gray	1-31	1-31	1-31	1-31
060C	3163	3-Gray	3-Gray	3-Gray	3-Gray	1-31	1-31	1-31	1-31
070C	4378	4-Black	4-Black	4-Black	4-Black	2-26	2-26	2-27	2-27
080C	4479	4-Black	4-Black	4-Black	4-Black	2-27	2-27	2-27	2-27
090C	4981	4-Black	4-Black	4-Red	4-Red	2-27	2-27	2-28	2-28
100C	5758	4-Black	4-Black	4-Red	4-Red	2-27	2-27	2-28	2-28
110C	6139	4-Red	4-Red	4-Red	4-Red	2-28	2-29	2-31	2-31
120C	6400	4-Red	4-Red	4-Red	4-Red	2-28	2-28	2-31	2-31
ARRANGEMENT 2 - With Mounted Receivers									
008C	845	2-Green	2-Green	2-Green	2-Green	1-24	1-24	1-24	1-24
010C	949	2-Green	2-Green	2-Green	2-Green	1-24	1-24	1-24	1-24
015C	1066	2-Green	2-Green	2-Green	2-Green	1-24	1-24	1-24	1-24
020C	1300	3-Red	3-Green	3-Red	3-Red	1-25	1-26	1-25	1-24
025C	1487	3-Red	3-Green	3-Red	3-Red	1-25	1-27	1-25	1-24
030C	1556	3-Red	3-Green	3-Red	3-Red	1-26	1-27	1-25	1-24
040C	2296	3-Green	3-Green	3-Green	3-Green	1-27	1-27	1-27	1-27
050C	2672	3-Gray	3-Gray	3-Gray	3-Gray	1-28	1-28	1-28	1-28
060C	2833	3-Gray	3-Gray	3-Gray	3-Gray	1-28	1-28	1-28	1-28
070C	3913	4-Gray	4-Gray	4-Black	4-Black	1-31	1-31	2-27	2-27
080C	3989	4-Gray	4-Gray	4-Black	4-Black	2-26	2-26	2-27	2-27
090C	4381	4-Black	4-Black	4-Black	4-Black	2-26	2-26	2-27	2-27
100C	5138	4-Black	4-Black	4-Red	4-Red	2-27	2-27	2-28	2-28
110C	5409	4-Black	4-Black	4-Red	4-Red	2-27	2-27	2-28	2-28
120C	5560	4-Black	4-Black	4-Red	4-Red	2-28	2-28	2-31	2-31

Unit Mounting Vibration
Isolator Selection & Mounting Locations
Arrangements 3 & 4



WHR Model Num.	Operating Weight (Lbs.)	Single Rubber-In-Shear Mountings				Spring-Flex Mountings			
		Mounting Locations				Mounting Locations			
		1	2	3	4	1	2	3	4
		Type RP-Mounting Selection No.				Type CP-Mounting Selection No.			
ARRANGEMENT 3 - Less Condensers									
008C	780	2-Green	2-Green	2-Red	2-Red	1-24	1-24	1-23	1-23
010C	849	2-Green	2-Green	2-Red	2-Red	1-24	1-24	1-23	1-23
015C	946	2-Green	2-Green	2-Red	2-Red	1-25	1-25	1-24	1-24
020C	1119	3-Black	3-Red	3-Red	3-Black	1-24	1-25	1-25	1-24
025C	1307	3-Red	3-Red	3-Red	3-Red	1-25	1-26	1-26	1-25
030C	1376	3-Red	3-Red	3-Red	3-Red	1-25	1-26	1-26	1-25
040C	1855	3-Green	3-Green	3-Green	3-Green	1-26	1-26	1-26	1-26
050C	2212	3-Green	3-Green	3-Green	3-Green	1-27	1-27	1-27	1-27
060C	2353	3-Green	3-Green	3-Green	3-Green	1-27	1-27	1-27	1-27
070C	3383	3-Gray	3-Gray	4-Black	4-Black	1-28	1-28	1-31	1-31
080C	3439	3-Gray	3-Gray	4-Black	4-Black	1-31	1-31	2-26	2-26
090C	3731	3-Gray	3-Gray	4-Black	4-Black	1-31	1-31	2-27	2-27
100C	4478	4-Black	4-Black	4-Black	4-Black	2-26	2-26	2-27	2-27
110C	4649	4-Black	4-Black	4-Black	4-Black	2-27	2-27	2-28	2-28
120C	4700	4-Black	4-Black	4-Black	4-Black	2-27	2-27	2-28	2-28
ARRANGEMENT 4 - With Dual Heat Recovery Condensers									
040C	3260	3-Gray	3-Gray	3-Gray	3-Gray	1-31	1-31	1-31	1-31
050C	3710	3-Gray	3-Gray	3-Gray	3-Gray	2-26	2-26	2-26	2-26
060C	3940	4-Black	4-Black	4-Black	4-Black	2-27	2-27	2-27	2-27
070C	5380	4-Black	4-Black	4-Red	4-Red	2-28	2-28	2-31	2-31
080C	5500	4-Black	4-Black	4-Red	4-Red	2-28	2-28	2-31	2-31
090C	6200	4-Black	4-Black	4-Red	4-Red	2-28	2-28	2-31	2-31
100C	7000	4-Red	4-Red	4-Red	4-Red	2-31	2-31	4-27	4-27
110C	7570	4-Red	4-Red	4-Green	4-Green	2-31	2-31	4-27	4-27
120C	8020	4-Red	4-Red	4-Green	4-Green	4-27	4-27	4-27	4-27

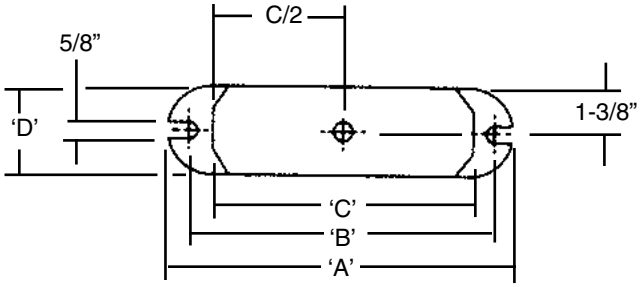
Unit Mounting Vibration
Single Rubber-in-Shear/Isolator

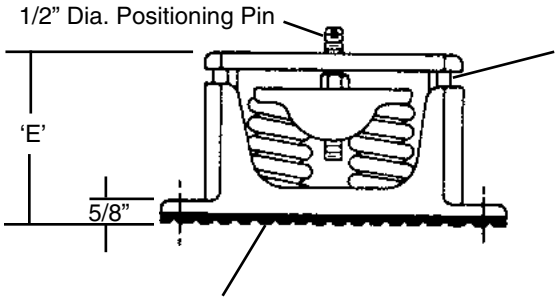


Type RP Mounting Selection No.	Part No.
RP-2-Green	021639503
RP-3-Green	021639703
RP-3-Gray	021639705
RP-3-Red	021639701
RP-4-Black	021639704
RP-4-Red	021639701

Type	Color	Max. Load Each (Lbs.)	Defl. (In.)	Dimensions (Inches)							
				A	B	C	D	E	H	L	W
RP-2	Red	240	.25	1-3/4	3/8	3	11/16	7/32	1-1/4	3-7/8	2-3/8
RP-2	Green	380	.25	1-3/4	3/8	3	11/16	7/32	1-1/4	3-7/8	2-3/8
RP-3	Black	250	.25	2-1/2	1/2	4-1/8	9/16	1/4	1-3/4	5-1/2	3-3/8
RP-3	Red	525	.25	2-1/2	1/2	4-1/8	9/16	1/4	1-3/4	5-1/2	3-3/8
RR-3	Green	750	.25	2-1/2	1/2	4-1/8	9/16	1/4	1-3/4	5-1/2	3-3/8
RP-3	Gray	1100	.25	2-1/2	1/2	4-1/8	9/16	1/4	1-3/4	5-1/2	3-3/8
RP-4	Black	1500	.25	3-3/4	5/8	5	9/16	1/4	1-3/4	6-1/2	4-1/4
RP-4	Red	2250	.25	3-3/4	5/8	5	9/16	1/4	1-3/4	6-1/2	4-1/4
RP-4	Green	3000	.25	3-3/4	5/8	5	9/16	1/4	1-3/4	6-1/2	4-1/4

Unit Mounting Vibration
Spring-Flex Mountings/Isolator




1/2" Dia. Positioning Pin
'E'
5/8"
Adjust mounting so upper housing clears lower housing by at least 1/16" and not more than 1/2".
Acoustical Non-skid Neoprene Pad

Type CP Mounting Selection No.	Part No.
CP-1-23	021640323
CP-1-24	021640324
CP-1-25	021640325
CP-1-26	021640326
CP-1-27	021640327
CP-1-28	021640328
CP-1-31	021640331
CP-2-26	021640426
CP-2-27	021640427
CP-2-28	021640428
CP-2-31	021640431
CP-4-27	024088727

Type	Color	Max. Load Each (Lbs.)	Defl. (In.)	Dimensions (Inches)				
				A	B	C	D	E
CP-1-23	Gray with 1 Yellow Stripe	225	1.26	7-1/2	6-1/2	5	2-3/4	5-7/8
CP-1-24	Gray with 2 Green Stripes	325	1.23	7-1/2	6-1/2	5	2-3/4	5-7/8
CP-1-25	Gray with 1 Red Stripe	450	1.22	7-1/2	6-1/2	5	2-3/4	5-7/8
CP-1-26	Gray with 2 White Stripes	600	1.17	7-1/2	6-1/2	5	2-3/4	5-7/8
CP-1-27	Gray with 1 Orange Stripe	750	1.06	7-1/2	6-1/2	5	2-3/4	5-7/8
CP-1-28	Gray with 1 Green Stripe	900	1.02	7-1/2	6-1/2	5	2-3/4	5-7/8
CP-1-31	Gray with 2 Yellow Stripes	1100	0.83	7-1/2	6-1/2	5	2-3/4	5-7/8
CP-2-26	Gray with 2 White Stripes	1200	1.17	10-1/4	9-1/4	8	2-3/4	5-7/8
CP-2-27	Gray with 1 Orange Stripe	1500	1.06	10-1/4	9-1/4	8	2-3/4	5-7/8
CP-2-28	Gray with 1 Green Stripe	1800	1.02	10-1/4	9-1/2	8	2-3/4	5-7/8
CP-2-31	Gray with 2 Yellow Stripes	2200	0.83	10-1/4	9-1/2	8	2-3/4	5-7/8
CP-4-27	Gray with 1 Orange Stripe	3000	1.06	10-1/4	9-1/2	7-1/2	5	6-1/8

Cooler Assembly
Arrangements 1, 2, 3 & 4 / Components List

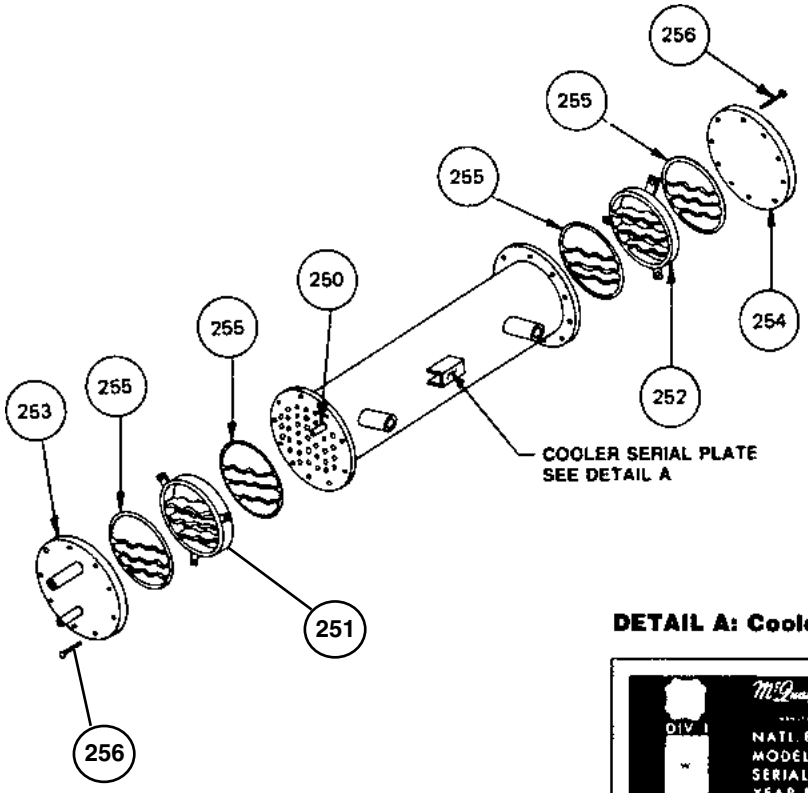
To ensure accuracy of part numbers listed, contact Daikin Applied with information from the Cooler Serial Plate (see page 24).

WHR Unit Size	Part Description		Part No. (Same as Model No. on Serial Plate) (without Insulation)	Part No. (Insulated)
	Diameter (In.)	Shell Length (In.)		
Arrangements 1, 2, 3				
008C, 010C-1,2,3	6.62	58.18	022796900	025221801
015C-1,2,3	8.62	58.18	022799000	025221802
020C-1,2,3	6.62	82.18	027303600	027888001
025C-1,2,3	8.62	70.18	027303500	027888002
030C-1,2,3	8.62	82.18	027303400	027888003
040C-1,2,3	8.62	106.18	026663300	027299801
050C-1,2,3	10.75	94.18	026661600	027299802
060C-1,2,3	10.75	106.18	026661700	027299803
070C, 080C-1,2,3	12.75	93.18	026663400	027284601
090C-1,2,3	12.75	117.18	026669200	027284602
100C-1,2,3	14.00	105.20	026669300	027284603
110C-120C-1,2,3	14.00	117.20	026669400	027284604
Arrangement 4 Units with dual condenser circuits				
040C-4	8.62	106.18	040541800	039577401
050C-4	10.75	95.18	039577500	039577402
060C-4	10.75	106.18	039577500	039577403
070C, 080C-4	12.75	93.18	040546900	040184301
090C-4	12.75	117.18	040184400	040184302
100C-4	14.00	105.20	040545700	040184303
110C-120C-4	14.00	117.20	040544000	040184304

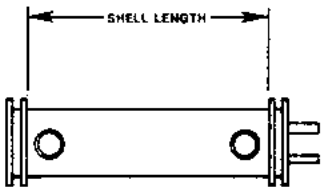
Cooler Assembly

Sub-Assembly Diagram

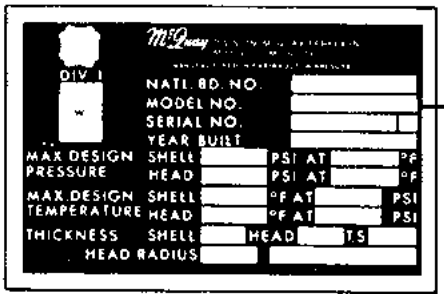
To ensure accuracy of part numbers listed, contact Daikin Applied with information from the Cooler Serial Plate.



*NOTE:



DETAIL A: Cooler Serial Plate



Please refer to model number when ordering parts or complete cooler. McQuay model number is also McQuay part number for cooler without insulation.

Cooler Assembly
Sub-Assembly / Components List

To ensure accuracy of part numbers listed, contact Daikin Applied with information from the Cooler Serial Plate (see page 24).

Bub. Num.	Description	Part Number	WHR Unit Size-Pieces Per Unit										
			008C/010C	015C	020C	025C	030C	040C	050C	060C	070C/080C	090C	100C	110/120C
Cooler Tubes (Includes Internal Turbulators)														
250	60" Tube Length	026662303	55	92										
250	72" Tube Length	026662304				92								
250	84" Tube Length	026662305			55		92							
250	96" Tube Length	026662306							142		201			
250	108" Tube Length	026662307						86		142			244	
250	120" Tube Length	026662308										201		244
251*	Front Head Ring	022793500	1											
251*	Front Head Ring	022797300		1										
251*	Front Head Ring	027302500			1									
251*	Front Head Ring	027302200				1	1							
251*	Front Head Ring	026662700						1						
251*	Front Head Ring	023984400							1	1				
251*	Front Head RIng	026648800									1	1		
251*	Front Head Ring	026657200											1	1
252	Rear Head Ring	022793400	1											
252	Rear Head Ring	022796800		1										
252	Rear Head Ring	027302600			1									
252	Rear Head Ring	027302100				1	1							
252	Rear Head Ring	026662800						1						
252	Rear Head Ring	023984500							1	1				
252	Rear Head Ring	026658900									1	1		
252	Rear Head Ring	026657300											1	1
253*	Front Cover Plate (Incl. connections)	022795201	1											
253*	Front Cover Plate (Incl. connections)	022798201		1										
253*	Front Cover Plate (Incl. connections)	027874700			1									
253*	Front Cover Plate (Incl. connections)	027874600				1	1							
253*	Front Cover Plate (Incl. connections)	026662900						1						
253*	Front Cover Plate (Incl. connections)	026661300							1	1				
253*	Front Cover Plate (Incl. connections)	026663600									1	1		
253*	Fr.Cover Plate (Incl Conn.)(Suct.Line 2-5/8")	029903800											1	
253*	Front Cover Plate (Incl. connections)	026670200												1
253*	Front Cover Plate (Arrg. C-4)	040542000						1						
253*	Front Cover Plate (Arrg. C-4)	042083100									1			

* No longer available

Cooler Assembly
Sub-Assembly / Components List, Cont'd.

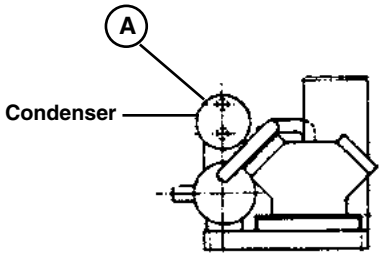
To ensure accuracy of part numbers listed, contact Daikin Applied with information from the Cooler Serial Plate (see page 24).

Bub. Num.	Description	Part Number	WHR Unit Size-Pieces Per Unit											
			008C/010C	015C	020C	025C	030C	040C	050C	060C	070C/080C	090C	100C	110/120C
Cooler Tubes (Includes Internal Turbulators)														
254	Rear Cover Plate	022795400	1		1									
254	Rear Cover Plate	022796800		1										
254	Rear Cover Plate	022798400				1	1	1						
254	Rear Cover Plate	027293000							1	1				
254	Rear Cover Plate	026660200									1	1		
254	Rear Cover Plate	026657600											1	1
255	Gaskets (Front & Rear Heads) **	022793600	4											
255	Gaskets (Front & Rear Heads) **	022797600		4										
255	Gaskets (Front & Rear Heads) **	027303800			4									
255	Gaskets (Front & Rear Heads) **	027303700				4	4							
255	Gaskets (Front & Rear Heads) **	026663100						4						
255	Gaskets (Front & Rear Heads) **	022795500							4	4				
255	Gaskets (Front & Rear Heads) **	026660300									4	4		
255	Gaskets (Front & Rear Heads) **	026657400											4	4
Head Bolts														
256*	1/2-13 x 2.75	022780000	24	24	24	24	24	24	24					
256*	5/8-11 x 3.75	022779900								32	32	40	40	40

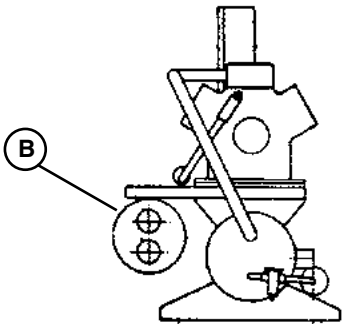
* No longer available
** Good for 'B' vintage units also.

Condenser Section
Location-Arrangement 1 / Components List

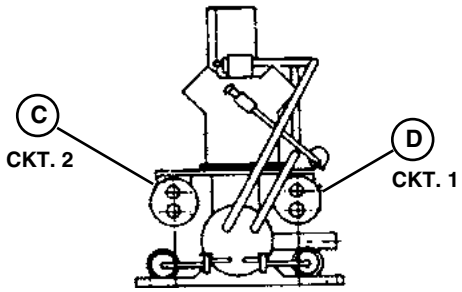
With Water Cooled Condensers



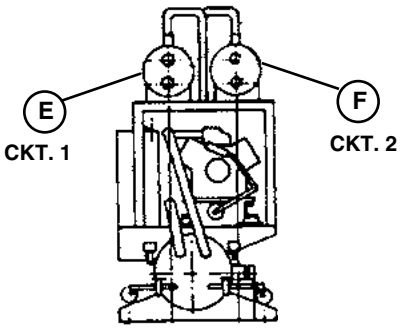
WHR-008C-1, 010C-1, 015C-1



WHR-020C-1, 025C-1, 030C-1



WHR-040C-1, 050C-1, 060C-1

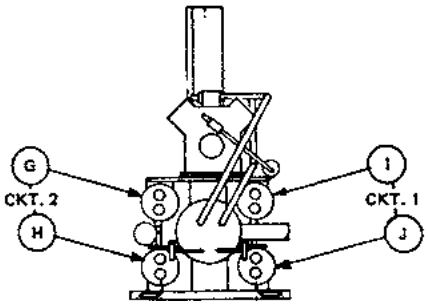


WHR-070C-1, 080C-1,
090C-1, 100C-1, 110C-1, 120C-1

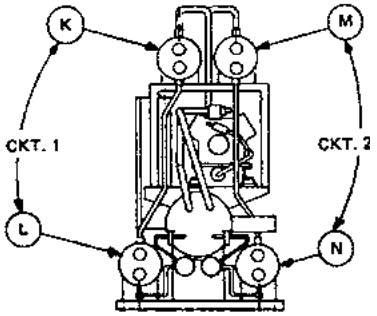
WHR Unit Size	Condenser Location	Part Description			Part No. (Insulated)
		Dia. (In.)	Shell Length (In.)	F.P.T. (In.)	
008C-1, 010C-1	A	6	60	1.50” F.P.T	038910600
015C-1	A	8	96	2.00” F.P.T	038910700
020C-1	B	8	96	2.00” F.P.T	038910800
025C-1, 030C-1	B	8	96	2.00” F.P.T	038010900
040C-1	C & D	8	96	2.00” F.P.T	039656100
050C-1	C	8	96	2.00” F.P.T	039656100
050C-1	D	8	96	2.00” F.P.T	039656300
060C-1	C	8	96	2.00” F.P.T	039656500
070C-1	F	8	96	2.00” F.P.T	038911000
070C-1	E	10	96	3.00” F.P.T	038911100
080C-1	F	8	96	2.00” F.P.T	038911000
080C-1	E	10	96	3.00” F.P.T	038911200
090C-1	F	8	96	2.00” F.P.T	038911000
090C-1	E	10	96	4.00” F.P.T	038911300
100C-1	E &F	10	96	3.00” F.P.T	038911200
110C-1	E	10	96	3.00” F.P.T	038911200
110C-1	F	10	96	4.00” F.P.T	038911300
120C-1	E &F	10	96	4.00” F.P.T	038911300

Condenser Section
Location-Arrangement 4 / Components List

With Dual Water Cooled Condensers Per Refrigerant Circuit



WHR-040C-4, 050C-4, 060C-4

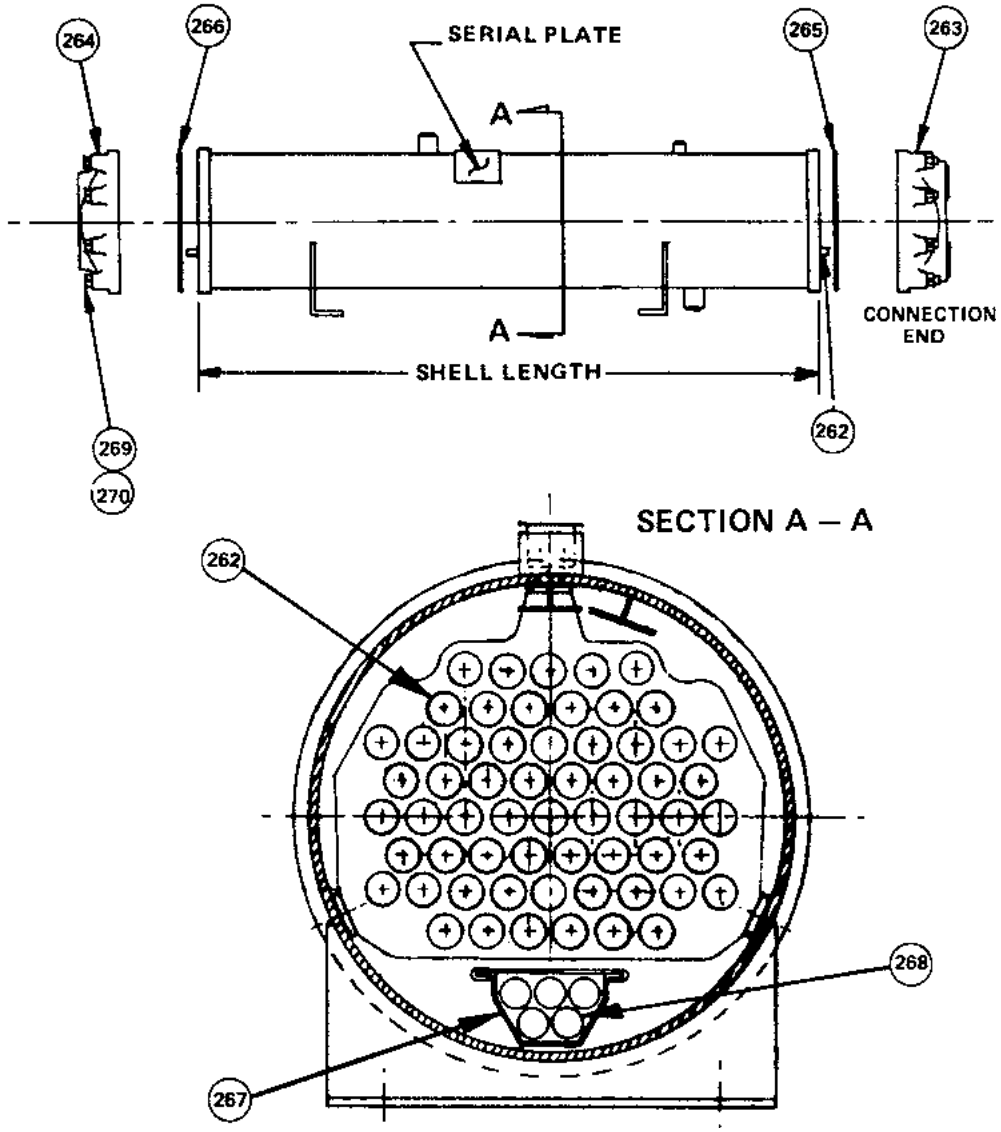


WHR-070C-4, 080C-4, 090C-4, 100C-4, 110C-4, 120C-4

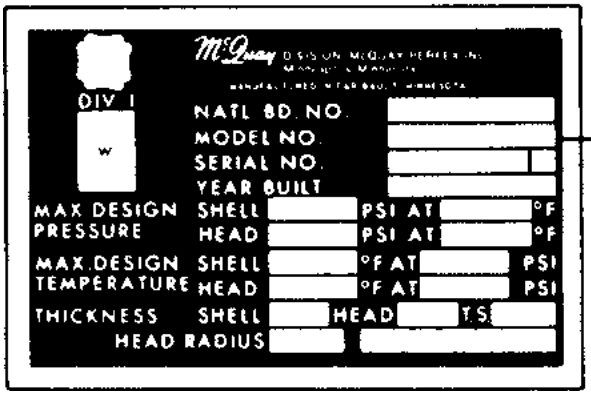
WHR Unit Size	Condenser Location	Part Description			Part No. (Insulated)
		Dia. (In.)	Shell Length (In.)	F.P.T. (In.)	
040C-4	G&I	8	96	2.00" F.P.T	040540700
040C-4	H	8	96	2.00" F.P.T	040541300
040C-4	J	8	96	2.00" F.P.T	040541900
050C-4	G	8	96	2.00" F.P.T	040540700
050C-4	I	8	96	2.00" F.P.T	040540900
050C-4	H	8	96	2.00" F.P.T	040541300
050C-4	J	8	96	2.00" F.P.T	040541900
060C-4	G&I	8	96	2.00" F.P.T Water	039577800
060C-4	H	8	96	2.00" F.P.T Water	039578000
060C-4	J	8	96	2.00" F.P.T Water	040539100
070C-4	K	8	96	2.00" F.P.T Water	040183500
070C-4	L	8	96	2.00" F.P.T Water	040860100
070C-4	M	10	96	3.00" F.P.T Water	040547100
070C-4	N	10	96	3.00" F.P.T Water	040547000
080C-4	K	8	96	2.00" F.P.T Water	040183500
080C-4	L	8	96	2.00" F.P.T Water	040860100
080C-4	M	10	96	3.00" F.P.T Water	040544100
080C-4	N	10	96	3.00" F.P.T Water	040860000
090C-4	K	8	96	2.00" F.P.T Water	040183500
090C-4	L	8	96	2.00" F.P.T Water	040183700
090C-4	M	12	96	4.00" F.P.T Water	040183300
090C-4	N	12	96	4.00" F.P.T Water	040184000
100C-4	K&M	10	96	3.00" F.P.T Water	040544100
100C-4	L&N	10	96	3.00" F.P.T Water	040544200
110C-4	M	12	96	4.00" F.P.T Water	040183300
110C-4	N	12	96	4.00" F.P.T Water	040184000
110C-4	K	10	96	3.00" F.P.T Water	040544100
110C-4	L	10	96	3.00" F.P.T Water	040544200
120C-4	K&M	12	96	4.00" F.P.T Water	040183300
120C-4	L&N	12	96	4.00" F.P.T Water	040184000

Condenser Section
Sub-Assembly Diagram

Condenser Sub-Assembly



Condenser Serial Plate



Please refer to model number when ordering parts or complete condenser. McQuay model number is also McQuay part number for condenser without insulation.

Condenser Section
Sub-Assembly / Components List

Bub. No.	Description	Part Number	Qty. Per Condenser
	Condenser Model No. 038910600 - 6" Dia., 60" Shell Length		
262	Condenser Tube, External Integral Finned, 60" Length	028638601	18
263	Condenser Head, Connection End	038908600	1
264	Condenser Head, Return End	038908700	1
265,266	Head Gaskets, Connection End and/or Return End	021026300	2
	Condenser Model No. 038910700 - 8" Dia., 96" Shell Length		
262	Condenser Tube, External Integral Finned, 96" Length	028638602	24
263	Condenser Head, Connection End	036607200	1
264	Condenser Head, Return End	038908800	1
265	Head Gasket, Connection End	020897900	1
266	Head Gasket, Return End	020898500	1
	Condenser Model No. 038910800 - 8" Dia., 96" Shell Length		
262	Condenser Tube, External Integral Finned, 96" Length	028638602	24
263	Condenser Head, Connection End	036607200	1
264	Condenser Head, Return End	038908800	1
265	Head Gasket, Connection End	020897900	1
266	Head Gasket, Return End	020898500	1
267	Subcooler Assembly (Includes Tube) (Tube same as condenser)	038910300	1
	Condenser Model No. 038910900 -8" Dia., 96" Shell Length		
262	Condenser Tube, External Integral Finned, 96" Length	028638602	34
263	Condenser Head, Connection End	036607200	1
264	Condenser Head, Return End	038908800	1
265	Head Gasket, Connection End	020897900	1
266	Head Gasket, Return End	020898500	1
267	Subcooler Assembly (Includes Tube) (Tube same as condenser)		
	Condenser Model No. 039656100 -8" Dia., 96" Shell Length		
262	Condenser Tube, External Integral Finned, 96" Length	028638602	24
263	Condenser Head, Connection End	036607200	1
264	Condenser Head, Return End	038908800	1
265	Head Gasket, Connection End	020897900	1
266	Head Gasket, Return End	020897900	1
267	Subcooler Assembly (Includes Tube) (Tube same as condenser)	038910300	1
	Condenser Model No. 039656300 -8" Dia., 96" Shell Length		
262	Condenser Tube, External Integral Finned, 96" Length	028638602	34
263	Condenser Head, Connection End	036607200	1
264	Condenser Head, Return End	038908800	1
265	Head Gasket, Connection End	020897900	1
266	Head Gasket, Return End	020898500	1
267	Subcooler Assembly (Includes Tube) (Tube same as condenser)	038910300	1

Condenser Section
Sub-Assembly / Components List, Cont'd.

Bub. No.	Description	Part Number	Qty. Per Condenser
	Condenser Model No. 040541300 - 8" Dia., 96" Shell Length		
262	Condenser Tube, External Integral Finned, 96" Length	028638602	24
263	Condenser Head, Connection End	036607200	1
264	Condenser Head, Return End	038908800	1
265	Head Gasket, Connection End	020897900	1
266	Head Gasket, Return End	020898500	1
267	Subcooler Assembly (Includes Tubes) (Tube same as condenser)	038910300	1
	Condenser Model No. 040541900 - 8" Dia., 96" Shell Length		
262	Condenser Tube, External Integral Finned, 96" Length	028638602	24
263	Condenser Head, Connection End	036607200	1
264	Condenser Head, Return End	038908800	1
265	Head Gasket, Connection End	020897900	1
266	Head Gasket, Return End	020898500	1
267	Subcooler Assembly (Includes Tubes) (Tube same as condenser)	038910300	1
	Condenser Model No. 040540900 - 8" Dia., 96" Shell Length		
262	Condenser Tube, External Integral Finned, 96" Length	028638602	34
263	Condenser Head, Connection End	036607200	1
264	Condenser Head, Return End	038908800	1
265	Head Gasket, Connection End	020897900	1
266	Head Gasket, Return End	020898500	1
	Condenser Model No. 039577800 - 8" Dia., 96" Shell Length		
262	Condenser Tube, External Integral Finned, 96" Length	028638602	34
263	Condenser Head, Connection End	036607200	1
264	Condenser Head, Return End	038908800	1
265	Head Gasket, Connection End	020897900	1
266	Head Gasket, Return End	020898500	1
	Condenser Model No. 039578000 - 8" Dia., 96" Shell Length		
262	Condenser Tube, External Integral Finned, 96" Length	028638602	34
263	Condenser Head, Connection End	036607200	1
264	Condenser Head, Return End	038908800	1
265	Head Gasket, Connection End	020897900	1
266	Head Gasket, Return End	020898500	1
267	Subcooler Assembly (Includes Tubes) (Tube same as condenser)	038910300	1

Condenser Section
Sub-Assembly / Components List, Cont'd.

Bub. No.	Description	Part Number	Qty. Per Condenser
	Condenser Model No. 040539100 - 8" Dia., 96" Shell Length		
262	Condenser Tube, External Integral Finned, 96" Length	028638601	34
263	Condenser Head, Connection End	036607200	1
264	Condenser Head, Return End	038908800	1
265	Head Gasket, Connection End	020897900	1
266	Head Gasket, Return End	020898500	1
267	Subcooler Assembly (Includes Tubes) (Tube same as condenser)	038910300	1
	Condenser Model No. 040138500 - 8" Dia., 96" Shell Length		
262	Condenser Tube, External Integral Finned, 96" Length	028638602	34
263	Condenser Head, Connection End	036607200	1
264	Condenser Head, Return End	038908800	1
265	Head Gasket, Connection End	020897900	1
266	Head Gasket, Return End	020898500	1
267	Subcooler Assembly (Includes Tubes) (Tube same as condenser)	038910300	1
	Condenser Model No. 040860100 - 8" Dia., 96" Shell Length		
262	Condenser Tube, External Integral Finned, 96" Length	028638602	34
263	Condenser Head, Connection End	036607200	1
264	Condenser Head, Return End	038908800	1
265	Head Gasket, Connection End	020897900	1
266	Head Gasket, Return End	020898500	1
267	Subcooler Assembly (Includes Tubes) (Tube same as condenser)	038910300	1
	Condenser Model No. 040547100 - 10" Dia., 96" Shell Length		
262	Condenser Tube, External Integral Finned, 96" Length	028638602	56
263	Condenser Head, Connection End	038183800	1
264	Condenser Head, Return End	038908900	1
265	Head Gasket, Connection End	021027100	1
266	Head Gasket, Return End	021027200	1
	Condenser Model No. 040547000 - 10" Dia., 96" Shell Length		
262	Condenser Tube, External Integral Finned, 96" Length	028638602	58
263	Condenser Head, Connection End	038183800	1
264	Condenser Head, Return End	038908900	1
265	Head Gasket, Connection End	021027100	1
266	Head Gasket, Return End	021027200	1
267	Subcooler Assembly (Includes Tubes) (Tube same as condenser)	038910400	1
	Condenser Model No. 040544100 - 10" Dia., 96" Shell Length		
262	Condenser Tube, External Integral Finned, 96" Length	028638602	64
263	Condenser Head, Connection End	038183800	1
264	Condenser Head, Return End	038908900	1
265	Head Gasket, Connection End	021027100	1
266	Head Gasket, Return End	021027200	1

Condenser Section
Sub-Assembly / Components List, Cont'd.

Bub. No.	Description	Part Number	Qty. Per Condenser
	Condenser Model No. 039656500 - 8" Dia., 96" Shell Length		
262	Condenser Tube, External Integral Finned, 96" Length	028638602	34
263	Condenser Head, Connection End	036607200	1
264	Condenser Head, Return End	038908800	1
265	Head Gasket, Connection End	020897900	1
266	Head Gasket, Return End	020898500	1
267	Subcooler Assembly (Includes Tubes) (Tube same as condenser)	038910300	1
	Condenser Model No. 038911000 - 8" Dia., 96" Shell Length		
262	Condenser Tube, External Integral Finned, 96" Length	028638602	34
263	Condenser Head, Connection End	036607200	1
264	Condenser Head, Return End	038908800	1
265	Head Gasket, Connection End	020897900	1
266	Head Gasket, Return End	020897900	1
267	Subcooler Assembly (Includes Tubes) (Tube same as condenser)	038910300	1
	Condenser Model No. 038911100 - 10" Dia., 96" Shell Length		
262	Condenser Tube, External Integral Finned, 96" Length	028638602	56
263	Condenser Head, Connection End	038183800	1
264	Condenser Head, Return End	038908900	1
265	Head Gasket, Connection End	021027100	1
266	Head Gasket, Return End	021027200	1
267	Subcooler Assembly (Includes Tubes) (Tube same as condenser)	038910400	1
	Condenser Model No. 038911200 - 10" Dia., 96" Shell Length		
262	Condenser Tube, External Integral Finned, 96" Length	028638602	64
263	Condenser Head, Connection End	038183800	1
264	Condenser Head, Return End	038908900	1
265	Head Gasket, Connection End	021027100	1
266	Head Gasket, Return End	021027200	1
267	Subcooler Assembly (Includes Tubes) (Tube same as condenser)	038910400	1
	Condenser Model No. 038911300 - 10" Dia., 96" Shell Length		
262	Condenser Tube, External Integral Finned, 96" Length	028638602	64
263	Condenser Head, Connection End	038183800	1
264	Condenser Head, Return End	038908900	1
265	Head Gasket, Connection End	021026100	1
266	Head Gasket, Return End	021026100	1
267	Subcooler Assembly (Includes Tubes) (Tube same as condenser)	038910400	1
	Condenser Model No. 040540700 - 8" Dia., 96" Shell Length		
262	Condenser Tube, External Integral Finned, 96" Length	028638602	24
263	Condenser Head, Connection End	036607200	1
264	Condenser Head, Return End	038908800	1
265	Head Gasket, Connection End	020897900	1
266	Head Gasket, Return End	020898500	1

Condenser Section
Sub-Assembly / Components List, Cont'd.

Bub. No.	Description	Part Number	Qty. Per Condenser
	Condenser Model No. 040860000 - 10" Dia., 96" Shell Length		
262	Condenser Tube, External Integral Finned, 96" Length	028638602	64
263	Condenser Head, Connection End	038183800	1
264	Condenser Head, Return End	038908900	1
265	Head Gasket, Connection End	021027100	1
266	Head Gasket, Return End	021027200	1
267	Subcooler Assembly (Includes Tubes) (Tube same as condenser)	038910400	1
	Condenser Model No. 040183700 - 8" Dia., 96" Shell Length		
262	Condenser Tube, External Integral Finned, 96" Length	028638602	34
263	Condenser Head, Connection End	036607200	1
264	Condenser Head, Return End	038908800	1
265	Head Gasket, Connection End	020897900	1
266	Head Gasket, Return End	020898500	1
267	Subcooler Assembly (Includes Tubes) (Tube same as condenser)	038910300	1
	Condenser Model No. 040183300 - 12" Dia., 96" Shell Length		
262	Condenser Tube, External Integral Finned, 96" Length	028638602	85
263	Condenser Head, Connection End	038909000	1
264	Condenser Head, Return End	038183900	1
265	Head Gasket, Connection End	021026100	1
266	Head Gasket, Return End	021026200	1
	Condenser Model No. 040184000 - 12" Dia., 96" Shell Length		
262	Condenser Tube, External Integral Finned, 96" Length	028638602	85
263	Condenser Head, Connection End	038909000	1
264	Condenser Head, Return End	038183900	1
265	Head Gasket, Connection End	021026100	1
266	Head Gasket, Return End	021026200	1
267	Subcooler Assembly (Includes Tubes) (Tube same as condenser)	038910500	1
	Condenser Model No. 040544200 - 10" Dia., 96" Shell Length		
262	Condenser Tube, External Integral Finned, 96" Length	028638602	64
263	Condenser Head, Connection End	038183800	1
264	Condenser Head, Return End	038908900	1
265	Head Gasket, Connection End	021027100	1
266	Head Gasket, Return End	021027200	1
267	Subcooler Assembly (Includes Tubes) (Tube same as condenser)	038910400	1
	All Size Condensers - Common Parts		
269	Stud Bolt, 5/8-11x4.00"	037521600	
270	Hex Nut, 5/8-11	000288500	

Piping & Miscellaneous
008C - 030C / Components List

Description	Part Number	WHR Unit Size-Pieces Per Unit																
		008C-1	008C-2	008C-3	010C-1	010C-2	010C-3	015C-1	015C-2	015C-3	020C-1	020C-2	020C-3	025C-1	025C-2	025C-3	030C-1	030C-2	030C-3
***Expansion Valve, Thermostatic Controlled**																			
8 Ton, 5/8" In, 7/8" Out, 60" Long Cap Tube	030389000	1	1	1	1	1	1												
20 Ton, 7/8" In, 1-1/8" Out, 60" Long Cap Tube	024029602							1	1	1									
20 Ton, 7/8" In, 1-3/8" Out, 60" Long Cap Tube	024029601										1	1	1	1	1	1			
30 Ton, 7/8" In, 1-3/8" Out, 60" Cap Tube	024029605																1	1	1
****Solenoid Valve, Liquid Line, 120 Volt, Pilot**																			
11 Ton, 5/8" ODF x 3/4" ODM, In-Line	031007401	1	1	1	1	1	1												
25 Ton, 7/8" ODF x 1-1/8" ODM, In-Line	031007403							1	1	1									
30.5 Ton, 7/8" ODF x 7/8" ODM, In-Line	025327500										1	1	1	1	1	1	1	1	1
1/4" Flare x 1/4" Flare x 1/4" Flare, Pilot	027517500										1	1	1	1	1	1	1	1	1
Pressure Relief Valve, 450 PSI	039441300	1	1		1	1		1	1		1	1		1	1		1	1	
Purge Valve, Shutoff, 1/4" Connections	001360100	1	1		1	1		1	1		1	1		1	1		1	1	
Liquid Line Shutoff Valve, Manual																			
5/8" ODM x 1/2" ODS Connections	001359900	1	1		1	1													
7/8" ODM x 3/4" ODS Connections	001360000							1	1		1			1			1		
1/4" Flare, 1-5/8" ODS x 1-5/8 ODS Connections	033036200											1			1			1	
Liquid Indicator, Glass Eyepiece with Cap (Units with Hot Gas Bypass have one additional indicator)																			
4-7/8" Long, 5/8" ODS x 5/8" ODS Connection	001359200	1	1	1	1	1	1												
6-1/4" Long, 7/8" ODS x 7/8" ODS Connection	001359300							1	1	1									
Liquid Indicator, Saddle Type, Two Piece (Units with Hot Gas Bypass have one additional indicator)																			
Cap	022427700										1	1	1	1	1	1	1	1	1
Body, 7/8" Connections	025329600										1	1	1	1	1	1	1	1	1
Filter-Drier Core, Element Replacement																			
3-1/8" Dia. x 6" Long, 42 Cubic Inch	001361000	1	1	1															
3-3/4" Dia. x 5-1/2" Long, 48 Cubic Inch	001360800				1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Filter-Drier Shell																			
42 Cubic Inch, 5/8" ODF Connections	001360900	1	1	1															
48 Cubic Inch, 5/8" ODF Connections	001360600				1	1	1												
48 Cubic Inch, 7/8" ODF Connections	001360700							1	1	1	1	1	1	1	1	1	1	1	1
Optional Hot Gas Bypass Modulating Pressure Valve																			
7/8" ODF Conn., 60" Long Cap. Tube, 55-70 Lbs.	023072900	1	1	1	1	1	1	1	1	1									
1-1/8" ODF Conn., 60" Long Cap Tube, 55-70 Lbs.	022973500										1	1	1	1	1	1	1	1	1
Optional Hot Gas Bypass Solenoid Valve, 120 Volt																			
25 Ton, 7/8" ODF x 1-1/8" ODM Connections	031007403	1	1	1	1	1	1	1	1	1									
39 Ton, 1-1/8" ODF x 1-1/8" ODM Connections	031007405										1	1	1	1	1	1	1	1	1

Notes:

*Units built before August,1980 used 40 ton (Sporlan No. OVE-40-CP-100). Recommended replacement is 30 ton valve listed. New 30 ton valve is directly interchangeable with old 40 ton valve.

** Units with engineering revision number 02 and greater have in-line solenoid valves. Engineering revision number 01 has pilot valves. The change to in-line solenoid valves occured approximately October, 1982.

Piping & Miscellaneous
008C - 030C / Components List, Cont'd.

Description	Part Number	WHR Unit Size-Pieces Per Unit																	
		008C-1	008C-2	008C-3	010C-1	010C-2	010C-3	015C-1	015C-2	015C-3	020C-1	020C-2	020C-3	025C-1	025C-2	025C-3	030C-1	030C-2	030C-3
Receiver, 10-3/4" Dia.x72"Lg, 1-5/8" ODS Conn.	027294200											1			1			1	
Optional Muffler, (Discharge Line)																			
7.5-10 Ton, 7/8" Connections	018899001	1			1														
10-15 Ton, 1-1/8" Connections	001383900							1			1								
15-25 Ton, 1-3/8" Connections	001373100													1			1		
Optional Gauges (Package for 20-30 / 715335AG01)																			
Suction Pressure, 30-150 Lbs., 1/8" Thread	017503500	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Oil Pressure, 30-150 Lbs. 1/8" Thread	017503500	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
High Pressure, 800 Lbs., 1/8" Thread	040159300	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Valve, Gauge Shutoff, 1/4" Flare x 1/8"FPT	028383500	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Water Flow Switch	017503300	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Lock Cylinder and Key	001157200	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

Piping & Miscellaneous
040C - 060C / Components List

Description	Part Number	WHR Unit Size-Pieces Per Unit											
		040C-1	040C-2	040C-3	040C-4	050C-1	050C-2	050C-3	050C-4	060C-1	060C-2	060C-3	060C-4
***Expansion Valve, Thermostatic Controlled**													
20 Ton, 7/8" In, 1-3/8" Out, 60" Long Cap Tube	024029601	2	2	2	2	1	1	1	1				
30 Ton, 7/8" In, 1-3/8" Out, 60" Cap Tube	024029605					1	1	1	1	2	2	2	2
****Solenoid Valve, Liquid Line, 120 Volt, Pilot**													
30.5 Ton, 7/8" ODF x 7/8" ODF, In-Line	025327500	2	2	2	2	2	2	2	2	2	2	2	2
Pressure Relief Valve, 450 PSI	039441300	2	2		2	2	2		2	2	2		2
Purge Valve, Shutoff, 1/4" Connections	001360100	2	2		4	2	2		4	2	2		4
Liquid Line Shutoff Valve, Manual													
7/8" ODM x 3/4" ODS Connections	001360000	1				1				1			
1/4" ODM x 1-5/8" ODS Connections	033036200		1			1				1			
1/4" Flare Gauge Connection, 7/8" ODS Connections	032193502				1				1				1
Liquid Indicator, Saddle Type, Two Piece													
Cap	022427700	1	1	1	1	1	1	1	1	1	1	1	1
Body, 7/8" Connections	025329600	1	1	1	1	1	1	1	1	1	1	1	1
Filter-Drier Core, Element Replacement	001360800	2	2	2	2	2	2	2	2	2	2	2	2
Filter-Drier Shell, 7/8" ODF Connections	001360700	2	2	2	2	2	2	2	2	2	2	2	2
Optional Hot Gas Bypass Modulating Pressure Valve													
1-1/8" ODF Conn., 60" Long Cap Tube, 55-70 Lbs.	022973500	1	1	1	1	1	1	1	1	1	1	1	1
Optional Hot Gas Bypass Solenoid Valve, 120 Volt													
39 Ton, 1-1/8" ODF Connections	031007405	1	1	1	1	1	1	1	1	1	1	1	1
Receiver, 10-3/4" Dia. x 72"Long, 1-5/8" ODS Connection	027294200		2				2				2		
Optional Muffler, (Discharge Line) (Code 13=1)													
10-15 Ton, 1-1/8" Connections	001383900	2			2	1			1				
15-25 Ton, 1-3/8" Connections	001373100					1			1	2			2
Optional Gauges (Code 07=A)													
Suction Pressure, 30-150 Lbs., 1/8" Thread	017503500	2	2	2	2	2	2	2	2	2	2	2	2
Oil Pressure, 30-150 Lbs. 1/8" Thread	017503500	2	2	2	2	2	2	2	2	2	2	2	2
High Pressure, 800 Lbs., 1/8" Thread	040159300	2	2	2	2	2	2	2	2	2	2	2	2
Valve, Gauge Shutoff, 1/4" Flare x 1/8" FPT	028383500	6	6	6	6	6	6	6	6	6	6	6	6
Water Flow Switch	017503300	1	1	1	1	1	1	1	1	1	1	1	1
Lock Cylinder and Key	001157200	1	1	1	1	1	1	1	1	1	1	1	1

Notes:

*Units built before August,1980 used 40 ton (Sporlan No. OVE-40-CP-100). Recommended replacement is 30 ton valve listed. New 30 ton valve is directly interchangeable with old 40 ton valve.

** Units with engineering revision number 02 and greater have in-line solenoid valves. Engineering revision number 01 has pilot valves. The change to in-line solenoid valves occured approximately October, 1982.

Piping & Miscellaneous
070C - 090C / Components List

Description	Part Number	WHR Unit Size-Pieces Per Unit											
		070C-1	070C-2	070C-3	070C-4	080C-1	080C-2	080C-3	080C-4	090C-1	090C-2	090C-3	090C-4
***Expansion Valve, Thermostatic Controlled**													
30 Ton, 7/8" In, 1-3/8" Out, 60" Long Cap Tube	024029605	1	1	1	1	1	1	1	1	1	1	1	1
40 Ton, 7/8" In, 1-3/8" Out, 60" Long Cap Tube	024029501	1	1	1	1								
70 Ton, 1-1/8" In, 1-3/8" Out, 60" Long Cap Tube	024029502					1	1	1	1	1	1	1	1
****Solenoid Valve, Liquid Line, 120 Volt, In-Line**													
30.5 Ton, 7/8" ODF x 7/8" ODF, Connections	025327500	1	1	1	1	1	1	1	1	1	1	1	1
58 Ton, 1-1/8" ODF x 1-1/8" ODF, Connections	025327600	1	1	1	1	1	1	1	1	1	1	1	1
Solenoid Valve, Liquid Line, 120 Volt, Pilot													
1/4" Flare x 1/4" Flare x 1/4" Flare (Three-way)	027517500	2	2	2	2	2	2	2	2	2	2	2	2
Pressure Relief Valve, 450 PSI	039441300	2	2		4	2	2		4	2	2		4
Purge Valve, Shutoff, 1/4" Connections	001360100	2	2		4	2	2		4	2	2		4
Liquid Line Shutoff Valve, Manual													
1-1/8" ODS Connections with 1/4" Gauge Port	019282100	1			1	1			1	1			1
7/8" ODM x 3/4" ODS Connection	001360000	1				1				1			
1-5/8" ODS Connections with 1/4" Gauge Port	033036200		2			2				2			
7/8" ODS Connections with 1/4" Gauge Port	032193502				1				1				1
Liquid Indicator, Saddle Type, Two Piece													
Cap	022427700	2	2	2	2	2	2	2	2	2	2	2	2
Body, 7/8" Connections	025329600	2	2	2	2	2	2	2	2	2	2	2	2
Filter-Drier Core, Element Replacement													
3-3/4" Diameter x 5-1/2" Long, 48 Cubic Inch	001360800	3	3	3	3	3	3	3	3	3	3	3	3
Filter-Drier Shell													
1-1/8" ODF Connections, 96 Cubic Inch	019190500	1	1	1	1	1	1	1	1	1	1	1	1
7/8" ODF Connections, 48 Cubic Inch	001360700	1	1	1	1	1	1	1	1	1	1	1	1
Optional Hot Gas Bypass Modulating Pressure Valve (Code 12=1)													
1-1/8" ODF Connections, 60" Long Cap Tube	022973500	1	1	1	1	1	1	1	1	1	1	1	1
Optional Hot Gas Bypass Solenoid Valve, 120 Volt (Code12=1)													
39 Ton, 1-1/8" ODF Connections, 120V	031007405	1	1	1	1	1	1	1	1	1	1	1	1
Optional Receivers, (Code 03=2)													
1-5/8" ODS Connections, 8-5/8" Diameter x 96" Long	026667600		1				1				1		
2-1/8" ODS Connections, 10-3/4" Diameter x 96" Long	026669500		1				1						
2-1/8" ODS Connections, 12-3/4" Diameter x 96" Long	026669600										1		
Optional Discharge Line Muffler (Code 13=1)													
1-5/8" ODS Connections	025687400	1			1	1			1	1			1
1-3/8" Connections, 15-25 Ton	001373100	1			1	1			1	1			1
Optional Gauges (Code 07=A)													
1/8" NPT, 30-150 Lbs., Suction Pressure Gauge	017503500	2	2	2	2	2	2	2	2	2	2	2	2
1/8" NPT, 30-150 Lbs., Oil Presure Gauge	017503500	3	3	3	3	3	3	3	3	3	3	3	3
1/8" NPT, 800 Lbs., High Pressure Gauge	040159300	2	2	2	2	2	2	2	2	2	2	2	2
Valve, Gauge Shutoff	028383500	7	7	7	7	7	7	7	7	7	7	7	7
Water Flow Switch	017503300	1	1	1	1	1	1	1	1	1	1	1	1
Lock Cylinder and Key	001157200	1	1	1	1	1	1	1	1	1	1	1	1

Notes: *Units built before August,1980 used 40 ton (Sporlan No. OVE-40-CP-100). Recommended replacement is 30 ton valve listed. New 30 ton valve is directly interchangeable with old 40 ton valve.

** Units with engineering revision number 02 and greater have in-line solenoid valves. Engineering revision number 01 has pilot valves. The change to in-line solenoid valves occured approximately October, 1982.

Piping & Miscellaneous
100C - 120C / Components List

Description	Part Number	WHR Unit Size-Pieces Per Unit											
		100C-1	100C-2	100C-3	100C-4	110C-1	110C-2	110C-3	110C-4	120C-1	120C-2	120C-3	120C-4
***Expansion Valve, Thermostatic Controlled**													
70 Ton, 1-1/8" In, 1-3/8" Out, 60" Long Cap Tube	024029502	2	2	2	2	2	2	2	2	2	2	2	2
****Solenoid Valve, Liquid Line, In-Line**													
58 Ton, 1-1/8" ODF, Connections	025327600	2	2	2	2	2	2	2	2	2	2	2	2
Solenoid Valve, Liquid Line, Pilot													
1/4" Flare x 1/4" Flare x 1/4" Flare (Three-way), 120V	027517500	2	2	2	2	2	2	2	2	2	2	2	2
Pressure Relief Valve, 450 PSI	039441300	2	2		4	2	2		4	2	2		4
Purge Valve, Shutoff, 1/4" Connections	001360100	2	2		4	2	2		4	2	2		4
Liquid Line Shutoff Valve, Manual													
1-1/8" ODS Connections with 1/4" Gauge Port	019282100	1			1	1			1	1			1
1-5/8" ODS Connections with 1/4" Gauge Port	033036200		2				2				2		
7/8" ODM End and 3/4" ODS Side Connections	001360000	1				1				1			
Liquid Indicator, Saddle Type, Two Piece													
Cap	022427700	2	2	2	2	2	2	2	2	2	2	2	2
Body, 1-1/8" ODS Connections	022431100	2	2	2	2	2	2	2	2	2	2	2	2
Filter-Drier Core, Element Replacement													
3-3/4" Diameter x 5-1/2" Long, 48 Cubic Inch	001360800	4	4	4	4	4	4	4	4	4	4	4	4
Filter-Drier Shell													
1-1/8" ODF Connections, 96 Cubic Inch	019190500	2	2	2	2	2	2	2	2	2	2	2	2
Optional Hot Gas Bypass Modulating Pressure Valve (Code 12=1)													
1-1/8" ODF Connections, 60" Long Cap Tube	022973500	1	1	1	1	1	1	1	1	1	1	1	1
Optional Hot Gas Bypass Solenoid Valve (Code12=1)													
1-1/8" ODF Connections, 120V, 39 Ton,	031007405	1	1	1	1	1	1	1	1	1	1	1	1
Optional Receivers, (Code 03=2)													
2-1/8" ODS Connections, 10-3/4" Diameter x 96" Long	026669500		2				1						
2-1/8" ODS Connections, 12-3/4" Diameter x 96" Long	026669600						1				2		
Optional Discharge Line Muffler (Code 13=1)													
1-5/8" ODS Connections	025687400	2			2	2			2	2			2
Optional Gauges (Code 07=A)													
1/8" NPT, 30-150 Lbs., Suction Pressure Gauge	017503500	2	2	2	2	2	2	2	2	2	2	2	2
1/8" NPT, 30-150 Lbs., Oil Presure Gauge	017503500	4	4	4	4	4	4	4	4	4	4	4	4
1/8" NPT, 800 Lbs., High Pressure Gauge	040159300	2	2	2	2	2	2	2	2	2	2	2	2
Valve, Gauge Shutoff	028388500	8	8	8	8	8	8	8	8	8	8	8	8
Water Flow Switch	017503300	1	1	1	1	1	1	1	1	1	1	1	1
Lock Cylinder and Key	001157200	1	1	1	1	1	1	1	1	1	1	1	1
Paint, Touch-up, Light Gray, *(Appears Tan)*, 12-Ounce Aerosol	802083003												

Notes: *Units built before August,1980 used 40 ton (Sporlan No. OVE-40-CP-100). Recommended replacement is 30 ton valve listed. New 30 ton valve is directly interchangeable with old 40 ton valve.

** Units with engineering revision number 02 and greater have in-line solenoid valves. Engineering revision number 01 has pilot valves. The change to in-line solenoid valves occured approximately October, 1982.